

CLAIMS:

1. A tube having walls of multi-layer construction, wherein said multi-layer construction includes one or more sub-layers, each said sub-layer consisting of a woven polymer mesh disposed in between one or more outer layers of material selected from the group consisting of paper, poly-propylene and polyethylene, wherein said tube is formed by affixing said sub-layers to each other whilst said sub-layers are formed into a tube using spiral winding equipment for the manufacture of paper tubes.
2. The tube of claim 1, wherein said mesh is provided in the form of a scrim cloth having between 6 and 15 strands per inch.
3. The tube of claim 2, wherein the grammage of the sub-layer is between about 120 g/m² and about 180 g/m² and has a tensile strength of greater than about 6.5 kN/m.
4. The tube of any preceding claim, wherein the outer layer of said sub-layer is a polymer material, and said polymer material is high density poly-ethylene (HDPE) or poly-propylene (PP).
5. The tube of any preceding claim, wherein the outer layer of said sub-layer is paper and said paper is kraft paper.
6. The tube of claim 5, wherein the kraft paper has a minimum grammage of about 40 g/m².
7. The tube of any preceding claim, wherein the outer layers of the sub-layer are bonded to the mesh via an intermediate layer of poly-ethylene (PE).
8. A concrete column form tube of multi layer construction according to claim 1, wherein the thickness of the tube wall is at least 2.5mm, thereby to allow the tubing material sufficient strength to be self-supporting when stood upright.

9. The tube of claim 8, wherein the thickness of the tube wall is no greater than about 5mm, thereby retaining an ability to be removed via cutting with a hand-held knife.

5 10. A concrete column form tube of multi layer construction according to claim 1, wherein the overall thickness of said tube wall is no greater than about 1.5mm thereby to provide sufficient flexibility to be stored and transported in a flattened state.

10 11. A packaging tube, for the transport or storage of hard or sharp materials, of multi-layer construction according to claim 1, wherein the thickness of the tube wall is at least 2.5mm, thereby to allow the tubing material sufficient strength to resist puncture due to internal movement of said hard or sharp materials.

15 12. A roll core tube, for use in the winding of sheet materials, of multi-layer construction according to claim 1, wherein the thickness of the tube wall is at least 2.5mm, thereby to allow the tubing material sufficient strength to resist crushing forces.

13. A tube having walls of multi-layer construction substantially as described hereinbefore.